WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Denali Bo	rough Sampling Date: 06-Aug-12									
Applic:	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T16_04									
Investigator(s): SLI, KMK Landform (hillside, terrace, hummocks etc.): Mountainslope														
Local relief (concave, convex, none): flat Slope: % / 34.9 ° Elevation: 109														
	gion : Interior Alaska Mountains	l at ·	63.428858194		Long.: -148.594755211 Datum: NAD83									
		Lat	03.420030194	+1										
	ap Unit Name:			<u> </u>	NWI classification: Upland									
	matic/hydrologic conditions on the site typical for this ti	-		● No ○	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○									
	Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)													
Are v	regetation . , Soil . , or Hydrology .	naturally	problematic?	(If nee	ded, explain any answers in Remarks.)									
SUMI	MARY OF FINDINGS - Attach site map sho	wing sa	mpling point	locations	s, transects, important features, etc.									
	Hydrophytic Vegetation Present? Yes O No @)												
	Hydric Soil Present? Yes ○ No ④	D			pled Area									
	Wetland Hydrology Present? Yes No (wi	thin a W	etland? Yes ○ No •									
Rema		<u> </u>												
/FGI	ETATION - Use scientific names of plants. Li	ict all cr	acias in tha	nlot										
	- Ose scientific flames of plants. Li	-		•	Dominance Test worksheet:									
Tre	e Stratum	Absolute % Cove		Indicator Status	Number of Dominant Species									
1.		0			That are OBL, FACW, or FAC: (A)									
2.		0			Total Number of Dominant Species Across All Strata: 3 (B)									
3.		0			Percent of dominant Species									
4.		0			That Are OBL, FACW, or FAC: 33.3% (A/B)									
5.		0			Prevalence Index worksheet:									
	Total Cover	:	_		Total % Cover of: Multiply by:									
Sap	oling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species 0 x 1 = 0									
1	Vaccinium uliginosum	15		FAC	FACW Species 6 x 2 = 12									
2.	Vaccinium vitis-idaea			FAC	FAC Species 31 x 3 = 93									
3.	Arctous alpinus	50		FACU	FACU Species 61 x 4 = 244									
4.	Empetrum nigrum	3		FAC	UPL Species 2 x 5 = 10									
5.	Salix arctica	3		FACU	Column Totals: <u>100</u> (A) <u>359</u> (B)									
6.	Salix polaris	3		FACW										
7.	Dryas ajanensis	2		UPL	Prevalence Index = B/A = 3.590									
8.	Rhododendron tomentosum	3		FACW	Hydrophytic Vegetation Indicators:									
9.		0			☐ Dominance Test is > 50%									
10.		0			Prevalence Index is ≤3.0									
	Total Cover				☐ Morphological Adaptations ¹ (Provide supporting data in									
_	b Stratum 50% of Total Cover:	_42 20	0% of Total Cover		Remarks or on a separate sheet)									
	Anthoxanthum monticola ssp. alpinum	5		UPL	Problematic Hydrophytic Vegetation (Explain)									
	Festuca altaica			FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.									
	Arnica latifolia			FAC	be present, unless disturbed or problematic.									
	Anemone narcissiflora			FACU	Plot size (radius, or length x width)									
5.				FACU	% Cover of Wetland Bryophytes									
			-		(Where applicable)									
			- =		% Bare Ground									
			- =		Total Cover of Bryophytes									
J 3.					Underwhite									
					Hydrophytic Vegetation									
		: 16			vegetation									
	Total Cover 50% of Total Cover:		_ % of Total Cover:	3.2	Present? Yes No •									

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SOIL Sampling Point: SW12_T16_04

Profile Description		he depth nee	eded to docum	ent the indicator or co	onfirm the abo		cators)				
(inches)	Color (moi	st)	%	Color (moist)	%	% Type ¹	_Loc_2	Texture	Remarks		
0-2								Hemic Organics	w angular gravels		
2-17	5YR	3/2	50		-				50% buried org,ang grvl-cbbl		
									30% 2222 2.9,. 33		
			— –								
								-			
¹Type: C=Cor	ncentration. D=	Depletion.		ed Matrix ² Location				annel. M=Matrix			
Hydric Soil In	ndicators:			Indicators for Pr	oblematic	c Hydric So	oils: ³				
Histosol or	Histel (A1)			Alaska Color Ch	aska Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder Underlying Layer						
Histic Epip	edon (A2)			Alaska Alpine s	wales (TA						
Hydrogen	Sulfide (A4)			Alaska Redox V	With 2.5Y H	lue	L	Other (Explain in Remark	(S)		
Thick Dark	Surface (A12)										
Alaska Gle	yed (A13)			One indicator of and an appropriat				nary indicator of wetland hesent	ıydrology,		
Alaska Red	dox (A14)					•		CSCIIC			
	yed Pores (A15)		⁴ Give details of co	olor change	e in Remark	(S				
Restrictive Laye	er (if present):										
Type:	_							Hydric Soil Present	? Yes ○ No •		
Depth (inch	nes):										
HYDROLO	GY										
Wetland Hydr	rology Indica	ors:						Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one is	sufficient)	1					Water Stained Leaves (B9)			
Surface Water (A1)				Inundation V	isible on A	erial Image	ry (B7)		Patterns (B10)		
High Water Table (A2)				Sparsely Veg	etated Cor	ncave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposits	s (B15)			_	of Reduced Iron (C4)		
Water Marks (B1)				Hydrogen Su				☐ Salt Depos			
Sediment Deposits (B2)				☐ Dry-Season \					Stressed Plants (D1)		
☐ Drift Depo				Other (Explai	in in Rema	rks)			ic Position (D2)		
	or Crust (B4)								quitard (D3)		
Iron Depo								_	graphic Relief (D4)		
	oil Cracks (B6)							☐ FAC-neutra	al Test (D5)		
Field Observa		Vac (No •	Donth (inche	· A.						
Surface Water				Depth (inche	: S):						
Water Table P		Yes ∪	No 💿	Depth (inche	es):		Wetla	nd Hydrology Presen	it? Yes O No 🖲		
Saturation Pre (includes capil		Yes O	No •	Depth (inche	ès):						
Describe Record	ded Data (strea	ım gauge, ı	monitor well,	, aerial photos, prev	vious inspe	ection) if ava	ailable:				
Remarks:											
no wetland hydrology indicators											
no weeding flydrology indicators											

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